DOCUMENTATION RECORDS FOR HAZARD RANKING SYSTEM

INSTRUCTIONS: The purpose of these records is to provide a convenient way to prepare an auditable record of the data and documentation used to apply the Hazard Ranking System to a given facility. As briefly as possible summarize the information you used to assign the score for each factor (e.g., "Waste quantity = 4,230 drums plus 800 cubic yards of sludges"). The source of information should be provided for each entry and should be a bibliographic-type reference that will make the document used for a given data point easier to find. Include the location of the document and consider appending a copy of the relevant page(s) for ease in review.

FACILITY NAME: NATIONAL LEAD TARACORP

LOCATION: 16-Th + Cleveland Blod. GRANITE City, IL 62040

Site not qualified for MPL - site as interium status!



GROUND WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected (5 maximum):

LEAD .

Rationale for attributing the contaminants to the facility:

SURFACE TABLE IS ONLY 7 TO 10 FT. BELOW THE

12/13/82 MEMO FROM BONIFACE* THAYIL TO STEVE ROTH BLATT, p 2 Scores a (45)

2 ROUTE CHARACTERISTICS

Depth to Aquifer of Concern

Name/description of aquifers(s) of concern:

OBSERVED RELEASE

Depth(s) from the ground surface to the highest seasonal level of the saturated zone [water table(s)] of the aquifer of concern:

Depth from the ground surface to the lowest point of waste disposal/storage:

	_		
Net	Prec	ומו	tation

Mean annual or seasonal precipitation (list months for seasonal):

Mean admual lake or seasonal evaporation (list months for seasonal):

Net precipitation (subtract the above figures):

OBSERVED RELEASE

Permeability of Unsaturated Zone

Soil type in unsaturated zone:

Permeability associated with soil type:

Physical State

Physical state of substances at time of disposal (or at present time for generated gases):

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

OBSERVED PELEASE

Method with highest core:

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated:

Toxicity

Persistence

Lead. Pb

SAX Sth ad

Compound with highest score:

PD: Total score: 18

P. 18 HWS monard toxicity/fersistence materia

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

K069 Secondary Lead: emission control dust/sludge from secondary lead smelty -> 6,355 tons

Scores an (B) >2500 Tom./cuyds

Basis of estimating and/or computing waste quantity:

EPA Form 3510-1 (6-80) RCRA notification for interium etatus
received Nov. 18, 1980 from company

5 TARGETS

Ground Water Use

Use(s) of aquifer(s) of concern within a 3-mile radius of the facility:

Industrial/Commercial - Mississippi River is the major water source Illinuis State water Survey: see copies of score shorts for Calideia/Dead Creek and Southern RR/E. St. Louis

Scores a 1

Distance to Nearest Well

Location of nearest well drawing from aquifer of concern or occupied building not served by a public water supply:

Granite City Steel plant: 1.22 from "Study of Lead in Granite City, Madison and Venice, Illinois" April 1983 by the IEPA

Sted plant is located SE of site at 20th & Madison

Distance to above well or building: ~ 4 m.le or 1320ft.

Scores a 4

Population Served by Ground Water Wells Within a 3-Mile Radius

Identified water-supply well(s) drawing from aquifer(s) of concern within a 3-mile radius and populations served by each:

None: municipal wells closest to site and ~ 6 miles east of cite

Computation of land area irrigated by supply well(s) drawing from aquifer(s) of concern within a 3-mile radius, and conversion to population (1.5 people per acre):

None

Total population served by ground water within a 3-mile radius:

scules a (0)

TOTAL from matrix: 1

SURFACE WATER ROUTE

1 OBSERVED RELEASE

Contaminants detected in surface water at the facility or downhill from it (5 maximum):

None

Rationale for attributing the contaminants to the facility:

waste pile with high lead levels

2 ROUTE CHARACTERISTICS

Facility Slope and Intervening Terrain

Average slope of facility in percent:

<1% determined from the Grante City IL. - MD. Quad-7. I min. series 1957 photorenisch 1968 \$ 1974

Name/description of nearest downslope surface water:

Horseshoe Lules

Mississippi Kiner

Average slope of terrain between facility and above-cited surface water body in percent:

Total Scare: (6)

Is the facility located either totally or partially in surface water?

NO

Is the facility completely surrounded by areas of higher elevation?

No

1-Year 24-Hour Rainfall in Inches

3" p. 33 HWS Ranky Manual - Fy. 4 B. 14r 24 hr. Reinfall Maps

Distance to Nearest Downslope Surface Water

1.9 miles from Grante City, IL-MO Quad Scurre a 1

Physical State of Waste P.25 of report: disposed of at an approved Landfill

Duet /- Sludge -- From ECEA permit application

Scores a (2) pp 19, 20 "Study of Lead... Illinois"

by IEPA April 1983

3 CONTAINMENT

Containment

Method(s) of waste or leachate containment evaluated:

Piles not covered, no divension Scores & 3

Pp. 25827" Study of Lead ... Illinois In 1977. April 1953

La photo

Method with highest score:

4 WASTE CHARACTERISTICS

Toxicity and Persistence

Compound(s) evaluated

See GW Poule

Compound with highest score:

See GW Route

Hazardous Waste Quantity

Total quantity of hazardous substances at the facility, excluding those with a containment score of 0 (Give a reasonable estimate even if quantity is above maximum):

See GW Route

Basis of estimating and/or computing waste quantity:

See GW Route

5 TARGETS

Surface Water Use

Use(s) of surface water within 3 miles downstream of the hazardous substance:

Drinking - Scores a 3)

p. 22 "Study of Lead Pollution ... Almoss"

April 1983 by IEPA

Is there tidal influence?

No

Distance to a Sensitive Environment

Distance to 5-acre (minimum). coastal wetland, if 2 miles or less:

N/A

Distance to 5-acre (minimum) fresh-water wetland, if I mile or less:

None: ~ 5 miles to a fresh-water wetland - determined from Quad.

Distance to critical habitat of an endangered species or national wildlife refuge, if I mile or less:

Mars

Population Served by Surface Water

Location(s) of water-supply intake(s) within 3 miles (free-flowing bodies) or 1 mile (static water bodies) downstream of the hazardous substance and population served by each intake:

Illinois American Interartion wheter Co.

Intake at 181 Rober mike which is 3 miles downstream

Source: Southern RR, E.St Leans Site - HWR Sheet - had to make call to chick

Computation of land area irrigated by above-cited intake(s) and conversion to population (1.5 people per acre):

Hone.

Total population served:

>10,000

Granite City Madison

39,900 > Rand 24,700 > Rand Nally Road Atlas

Name/description of nearest of above water bodies:

Mississippi River Horseshue Luke

Distance to above-cited intakes, measured in stream miles.

3 miles

TOTAL SCORE POP DIA to SW matrix: 20 however, this becomes @ due to no release(s) from the site and there are to many interceptions for a release to get to the rive

AIR ROUTE

1 OBSERVED RELEASE

Contaminants detected:

Pb

Date and location of detection of contaminants

Quarterly ambient lead averages (based on individual 24 hr samples taken every to days)

p. 10-17 "study of Load Pollution ... Illinois" April 1953 by IZPA

Methods used to detect the contaminants:

p. 5 " Study of Lead Pollution ... Illinos" April 1963 by IETA

Rationale for attributing the contaminants to the site:

waste ple not covered and smelter

2 WASTE CHARACTERISTICS

Reactivity and Incompatibility

Most reactive compound:

Pb: scores a @

Sax sti colition

Most incompatible pair of compounds:

None

Toxicity

Most toxic compound:

Hazardous Waste Quantity

Total quantity of hazardous waste:

· See GW Route

Basis of estimating and/or computing waste quantity:

See GW Rowle

3 TARGETS

Population Within 4-Mile Radius

Circle radius used, give population, and indicate how determined:

Distance to a Sensitive Environment

Distance to 5-acre (minimum) coastal wetland, if 2 miles or less:

None

Distance to 5-acre (minimum) fresh-water wetland, if 1 mile or less:

None

Distance to critical habitat of an endangered species, if I mile or less:

None

Land Use

Distance to commercial/industrial area, if I mile or less:

Kymile Granite City II - Mo Quad.

 Score & a B

Distance to national or state park, forest, or wildlife reserve, if 2 miles or less:

~ 6 miles to state park

Distance to residential area, if 2 miles or less:

.Z miles Granite City II - MO Quand.
Scores a 3

Distance to agricultural land in production within past 5 years, if 1 mile or less:

None

Distance to prime agricultural land in production within past 5 years, if 2 miles or less:

Nonc

Is a historic or landmark site (National Register or Historic Places and National Natural Landmarks) within the view of the site?

NO.